

## ezKIT10RH Road Tyre Kit

The ezKIT10RH road tyre kit allows to get started with the ez-Wheel ezW10R/W autonomous wheel. It provides an electric traction to any type of light vehicle or rolling material for outdoor use.

### Kit composition:

- 1 wheel ezW10R/W
- 1 rotating control kit Fwd/Bwd
- 1 wireless interface
- 1 charger 1.8 amperes
- 1 anti-rotate ring



### Autonomous wheel ezW10R/W

Main specifications	
Format/diameter	10" / 400 mm
Nominal power/Peak	250 W / 1kW
Motor specifications	
Technology	Brushless (BLDC PM)
Speed	0 to 18 km/h
Peak torque	55 Nm
Battery	
Electrochemistry	Ni-MH
Energy	240 Wh
Recharging time	5 hours (for 90%)
Interface	
Technology	Wireless (LR WPAN)
Frequency	2.4 GHz
Protocol	Based on IEEE 802.15.4

### Conditions of use

Temperature	-20 to + 60°C
IP index	IP65
Weight	
Total weight wheel	14.5 Kg
Maximum load	150 Kg per wheel

### Wireless interface ezR44IN/W

The wireless interface ezR44IN/W is used to remotely control one or two wheels. It can be mounted on a chassis with fixing collars, or on a drilled panel with bolts. The motor control is ensured by a command connected to the wireless interface

### Rotating control kit ezARH

The ezARH is a handle equipped with a thumb-operated rotating control. It can control the speed of the equipped material, forward and backward with progressive command. A second handle is included into the kit to complete the integration.

It connects to the wheel or wireless interface using ezAC2M/box cable.

### Charger 1.8 amperes Mascot1A8

The Mascot1A8 charger can recharge one wheel in 5 hours. It is a high-efficiency 60W power supply.

### Anti-rotate ring ezMAR

The ezMAR ring is used to block the rotation of the wheel's axis, ensuring the transmission of the motor torque to the chassis. The ezMAR is maintained on the chassis by two M6 bolts, and is tightened on the wheel's axis by one M3 bolt.

## Configuration

Forward	6 km/h
Backward	2 km/h
Peak torque	55 Nm
Acceleration curve	Strong (2/3)

## Multi-purpose

The wheel can be used inside or outside, over a wide range of temperatures. The components – including the battery – do not need any inspection or maintenance over the product's whole lifespan of more than 5 years.

The aluminium casing enables the wheel to bear a load of up to 300 kg (150 kg per tyre). The robust assembly can withstand the stresses of knocks and severe vibrations.

## Standards

The standardized dimensions and mechanical interface make it simple and quick to fit the product. The bored axle of the wheel is mounted on a 16 mm shaft just like a free wheel and the rotation stop consists of a locking collar at the end of the axle.

The hub forms a standardized rim, taking a 100-80-10 tyre fitted with a 3.5-10 inner tube. The wheel is delivered with a "road" tyre.

## Warranty

ez-Wheel products are guaranteed 1 year from the date of purchase. Consult the general conditions of sale for more information.

## Environmentally responsible

The approach to ez-Wheel product design is to minimize environmental impact. Collection and recycling are organized for products reaching the end of their lifecycle. Contact your dealer for more information.



Wireless interface



Rotating control kit



Charger 1.8 amperes



Anti-rotate ring

Design blueprints available at [www.ez-wheel.com](http://www.ez-wheel.com)